



TSPL/ENV/PCB/ES/2017-18/1107

Srikakulam,  
27.09.2017.

To  
The Joint Chief Environment Engineer  
AP Pollution Control Board  
Paryavaran Bhavan, A3, IE  
Sanathnagar  
Hyderabad-38

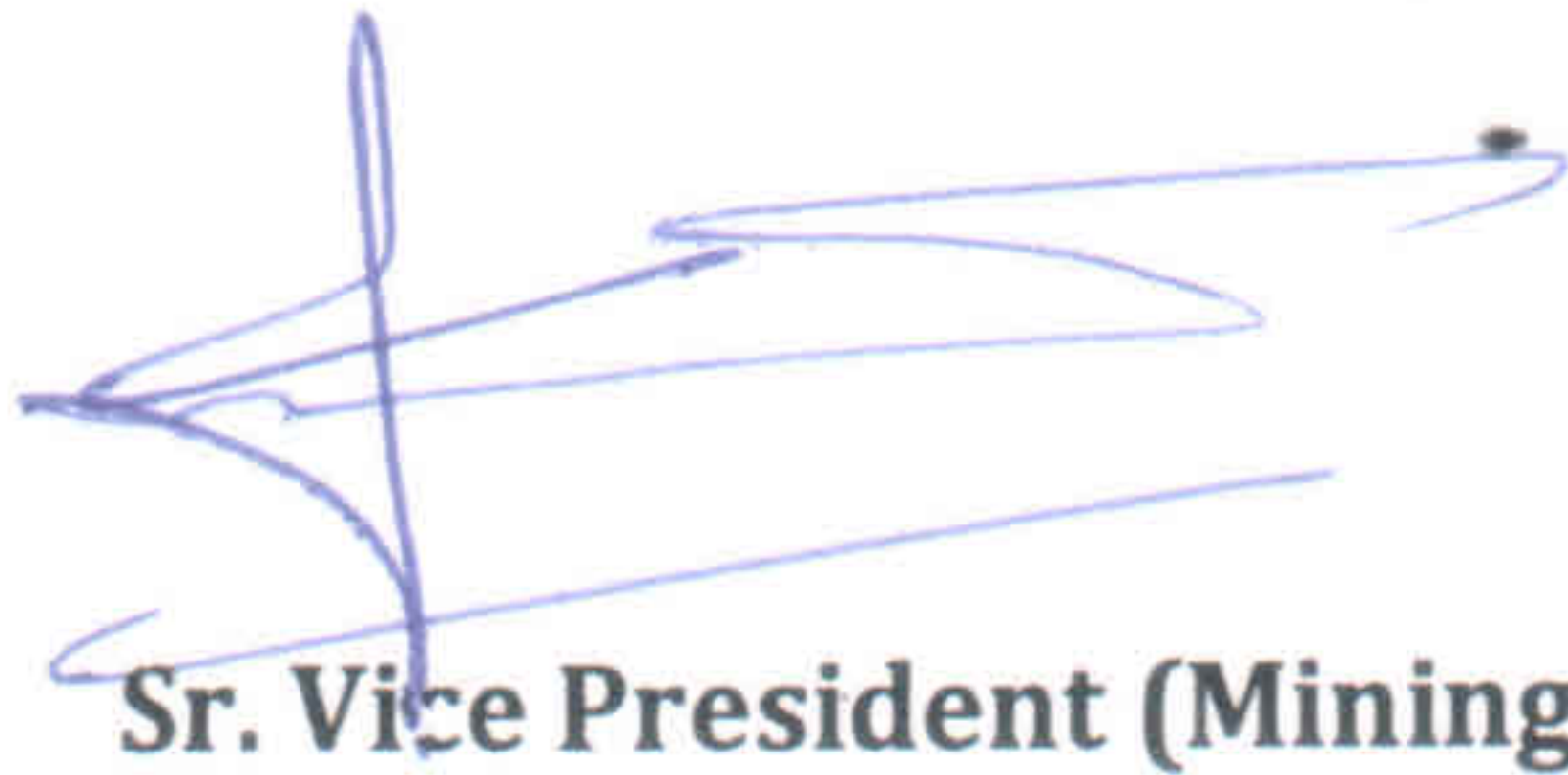
Dear Sir,

Sub: Environmental Statement – Form-V - 2016-17 – Reg.  
Ref: APPCB/VSP/VZM/152/HO/CFO/2015 Dated 30.10.2015

As per the reference cited, please find herewith Environmental Statement in Form-V for the financial year 2016-17.

Thanking You

Yours faithfully



**Sr. Vice President (Mining)**

Cc:

The Environment Engineer, AP Pollution Control Board, Regional Office,  
Plot no – 11, 1<sup>st</sup> floor, Shivaji Colony, Pradeep Nagar, Vizianagaram-535002

**Trimex Sands Pvt Ltd:** Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.  
Tel: +91 8942 283755, Fax: +91 8942 283758, email: info@trimexsands.com

**Hyderabad Office:** 2nd Floor, Sri Durga Towers, Plot No. 201, Road No. 10, Banjara Hills, Hyderabad - 500 034, Andhra Pradesh, India.  
Tel: +91 40 2338 4380 / 3371 3600 Fax: +91 40 2338 4068

**Reg. Office:** Trimex Towers, No.1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 018. Tamilnadu, India.  
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 **web: www.trimexsands.com**

**CIN :** U14299TN2004PTC071437

**FORM – V**  
**(See Rule 14)**

**Environmental Statement for the financial year ending with 31<sup>st</sup> March, 2017**

**PART - A**

- (i) Name and Address of the Owner/ Occupier of the Industry  
Operation or process
- M/S TRIMEX SANDS PVT. LTD.  
Vatsavalsa (V), Gara (M),  
Srikakulam Dist – 532 404
- (ii) Industry category Primary  
(SIC Code), Secondary –  
(SIC Code)
- 1360, 1533 & 1595
- (iii) Production capacity –  
(Permitted quantity as per CFO)
- | S.No        | Product               | Quantity (TPD) |
|-------------|-----------------------|----------------|
| 1           | Ilmenite              | 1100           |
| 2           | Sillimanite           | 550            |
| 3           | Garnet                | 550            |
| By Products |                       |                |
| 4           | Rutile                | 44             |
| 5           | Zircon                | 44             |
| 6           | Mineral Rich Tailings | 260            |
- (iv) Year of establishment 2009 - 2010
- (v) Date of the last environmental statement submitted. 13.08.2016  
(Vide Ir no TSPL/ENV/PCB/2015-16/1007)

**PART - B**

- (i) Water consumption, m<sup>3</sup>/d :

Process :- 7960 KLD  
Cooling :- - NA -  
Domestic :- 16.19 KLD

Name of Product	Process Water Consumption in m3 per unit of products	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
	(1)	(2)
Ilmanite, Rutile, Garnet, Zircon, Sillimanite.	8.40	8.06

ii) Raw Material Consumption:

Name of Raw Material	Name of Products	Process Raw Materials in tons per unit of products	
		During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
Beach Sand	Ilmanite, Rutile, Garnet, Zircon, Sillimanite	8.20	13.13

\* Industry may be use codes if disclosing details of raw material would violate contractual obligations, otherwise ass industries have to name the raw materials used.

**PART C**

Pollution discharged to environment / unit of output (Parameter as specified in the consent issued)		
Pollutants Quantity of Pollutants Discharged (mass / day)	Concentration of Pollutants in discharges (mass/volume)	Percentage of Variation from prescribed Standards with Reasons
(a) Water :	There is no discharge from the industry. We set up a network of 7 observation wells within and outside the mining lease area and weekly monitoring is being done and observed that all the parameters are under permissible limit.	NA
(b) Air	Monthly Ambient Air Quality monitoring is being carried out within and outside the mining lease area (surrounding villages). Stack Emission Details Annexure I	NA

**PART -- D**

**HAZARDOUS WASTES**

(as specified under Hazardous Wastes/Management and handling Rules, 1989)

Hazardous Wastes (Waste Lubricant Oil)	Total Quantity (lit)	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
(a) From Process	2690	2520
(b) From Pollution control facilities	NA	NA

**PART – E**

**SOLID WASTES:-**

SOLID WASTES (silica sand tailings)	Total Quantity (tons)	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
(a) From Process	23,74,980	37,39,014
(b) From Pollution Control Facility	NA	NA
(c)(i) Quantity to be recycled (Garnet & Sillimanite Concentrates) or reutilized within the unit.	65,527	56,174
(ii) Sold	NA	NA
(iii) Disposed	The above qty under (a) is backfilled at mined out area for reclamation and afforestation	The above qty under (a) is backfilled at mined out area for reclamation and afforestation

### PART – F

Please specify the characterizations (in terms of composition and quantum) of hazardous as solid wastes and indicate disposal practice adopted for both these categories of wastes

S.No	Name of HW / Solid Waste	Quantity	Type / Nature	Mode of Disposal
1	Waste Lubricant Oil	2520 liters (2016-17)	Inflammable	Stored in closed barrels in designated area and disposed by sale to the authorized agencies.
2	Silica Sand Tailings	3739014 tones (2016-17)	Non hazardous in nature	The same qty is back filled at mined out areas for reclamation and afforestation.
3	Waste Batteries	62	Hazardous in nature	Used Batteries is being disposed to the authorized agency on buyback basis.

### PART – G

Impact of the pollution abatement measure taken on conservation of natural resources and on the cost of production.

#### AFFORESTATION & GREEN BELT DEVELOPMENT AT PCP, MSP & MINING AREA

- 1) Captive nursery has been established at Mines
- 2) The nursery is manned by qualified personal and 21 full time workers are engaged from adjacent villages for Plantation.
- 3) Apart from the full time workers neighboring villagers are also engaged for nursery and Afforestation works. Among them mostly ladies are given opportunity to work.
- 4) Plantation details for the year 2016-2017 as follows

Types of species	PCP & MSP	Mining Area
Cashew	--	904
Eucalyptus	2,150	1300
Casuarina	1,240	107,888
Acacia	3,340	17,800
Palm Seeds	--	5,000
Forest tree variety (Gulmohar,Badam,Neem,Kanuga)	520	358
<b>Total :</b>	<b>7,250</b>	<b>1,33,250</b>

**Expenditure on Pollution control measures and Conservation of Natural Resources**

S.No	Description	During the Previous Financial Year 2015-2016 (in Rs.)	During the current Financial Year 2016-2017 (in Rs.)
1	Environmental Monitoring – Air, Water & Noise (outsourced).	65,000	1,30,0000
2	Dust suppression on roads in factory	2,08,000	5,48,000
3	PPE cost for dust and sound (dust masks, ear muffs, etc.).	2,96,000	3,36,000
4	De dusting & Bag filter –addition of bag filter and maintenance.	12,15,000	6,15,000
5	Expenditure on refilling / pumping from PCP, leveling by dozer.	68,85,000	1,58,02,000
6	Slime management cost in mines.	3,85,34,000	6,86,53,000
7	Thickener Operation.	1,37,90,000	2,26,65,000
8	Afforestation, Nursery maintenance (Seeds, Saplings, Manure, Watering, Wages etc.)	11,87,000	48,10,000
9	Fencing 100 Mts. from HTL	60,000	34,000
<b>Capital Expenditure</b>			
1	Thickener	8,27,08,000	--
2	Slime management cost in mines	44,59,000	--
3	Water recovery plant	4,06,73,000	--
	<b>Total :</b>	<b>19,00,80,000</b>	<b>11,35,93,000</b>

## PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

### Air Pollution Control Measures

- Mining area haul roads are being sprinkled with water periodically to ensure that there is no dust generation due to plying of vehicles.
- Bag filter efficiency is improved by changing bags of bag filter frequently and Bag filter efficiency tests are being carried out periodically and reports are being submitted to APPCB.
- Installed Water Treatment plant to treat the process water and thereby reduce dependability on river water. It is generating about 150 m<sup>3</sup>/hr of clean water.
- Concurrent backfilling of mined out area and Afforested with Casuarina, Acacia and Cashew done simultaneously to stabilize the soil and eliminate dust generation.

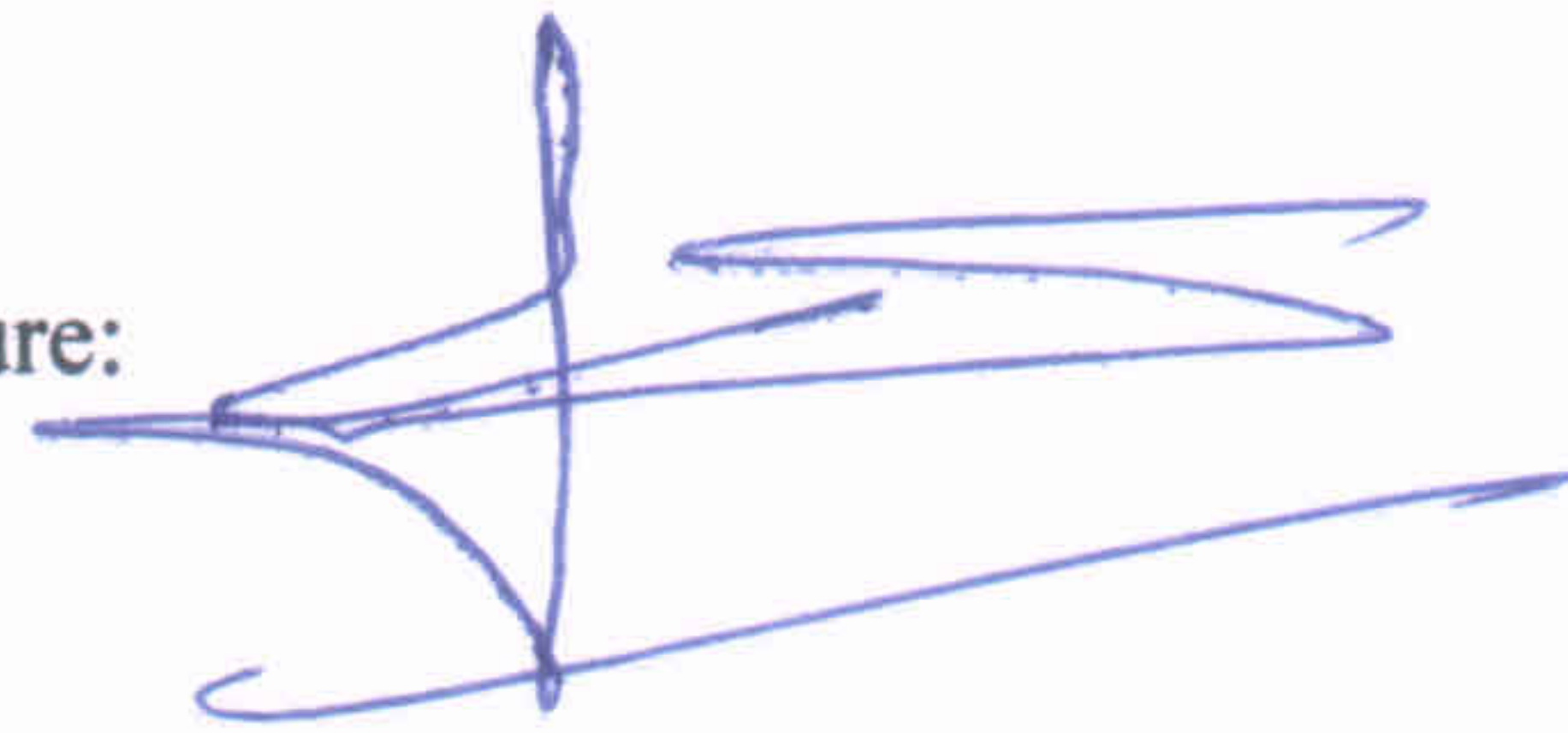
## PART – I

Any other particulars for improving the quality of the environment.

- VFD (110 KW) arranged for Con-1 return water pump to reduce energy consumption.
- By conducting World Environment Day & Vanamahostavam day celebrations by massive plantation program.

Place: Srikakulam

Signature:



Date: 27-09-2017

Designation: Sr. Vice President (Mines)

**Registered Office :**

B-115, 116, 117 &amp; 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization

Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/0317

dt 04.04.2017

Description of Test: Stack Emissions Analysis

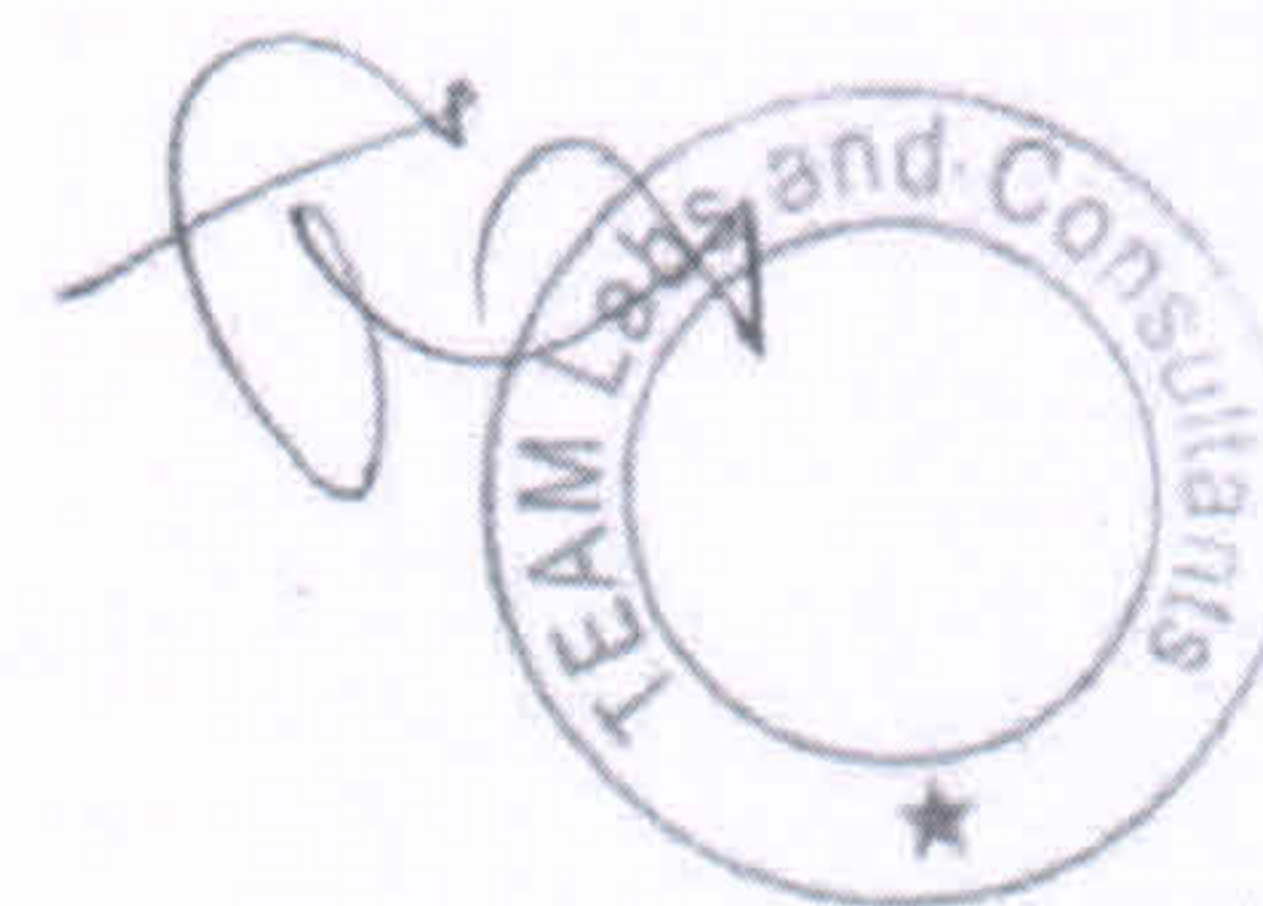
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 14.03.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	14.03.2017	14.03.2017
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	46	68
6	Exit gas velocity (m/s)	18.0	22.4
7	Flue gas flow rateNM <sup>3</sup> /hr	17131	66948
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	75	98

For TEAM Labs and Consultants





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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/0217

dt 10.03.2017

Description of Test: Stack Emissions Analysis

Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 14.02.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	14.02.2017	14.02.2017
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	65	57
6	Exit gas velocity (m/s)	32.5	21.0
7	Flue gas flow rate NM <sup>3</sup> /hr	28354	64856
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	90	62

For TEAM Labs and Consultants



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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/0117

dt 02.02.2017

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

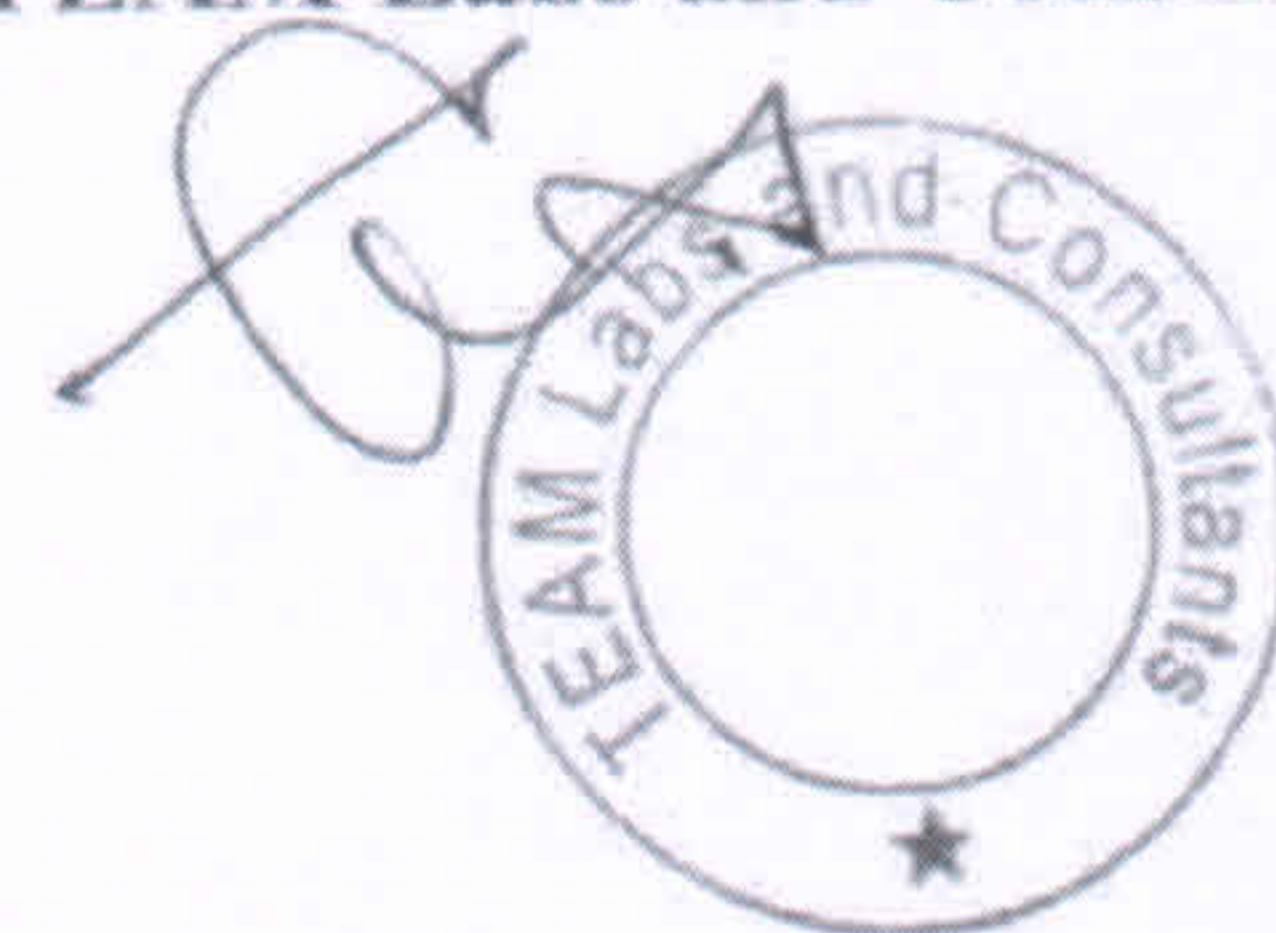
Baghouse attached to IRZ Dryer

Date of Sampling:

23.01.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	23.01.2017	23.01.2017
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	62	52
6	Exit gas velocity (m/s)	30.0	20.0
7	Flue gas flow rate NM <sup>3</sup> /hr	27188	62718
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	89	60

For TEAM Labs and Consultants



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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/1216

dt 03.01.2017

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Baghouse attached to IRZ Dryer  
Date of Sampling: 30.12.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	30.12.2016	30.12.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	57	48
6	Exit gas velocity (m/s)	35.0	21.9
7	Flue gas flow rateNM <sup>3</sup> /hr	20976	69531
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	95	63

For TEAM Labs and Consultants



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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/1116

dt 05.12.2016

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa,Srikakulam Dt.  
Location of sampling: Baghouse attached to IRZ Dryer  
Date of Sampling: 15.11.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	15.11.2016	15.11.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	69	64
6	Exit gas velocity (m/s)	18	32.0
7	Flue gas flow rateNM <sup>3</sup> /hr	15979	96775
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	52	66

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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/1016

dt 07.11.2016

Description of Test: Stack Emissions Analysis

Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa,Srikakulam Dt.

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 17.10.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.10.2016	17.10.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	66	60
6	Exit gas velocity (m/s)	16	30.0
7	Flue gas flow rateNM <sup>3</sup> /hr	14329	91816
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	49	62

For TEAM Labs and Consultants



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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/0916

dt 10.10.2016

Description of Test: Stack Emissions Analysis  
 Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
 Location of sampling: Baghouse attached to IRZ Dryer  
 Date of Sampling: 21.09.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	21.09.2016	21.09.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	62	64
6	Exit gas velocity (m/s)	15.6	29.0
7	Flue gas flow rate NM <sup>3</sup> /hr	14138	87702
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	45	58

For TEAM Labs and Consultants



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**TEST REPORT**

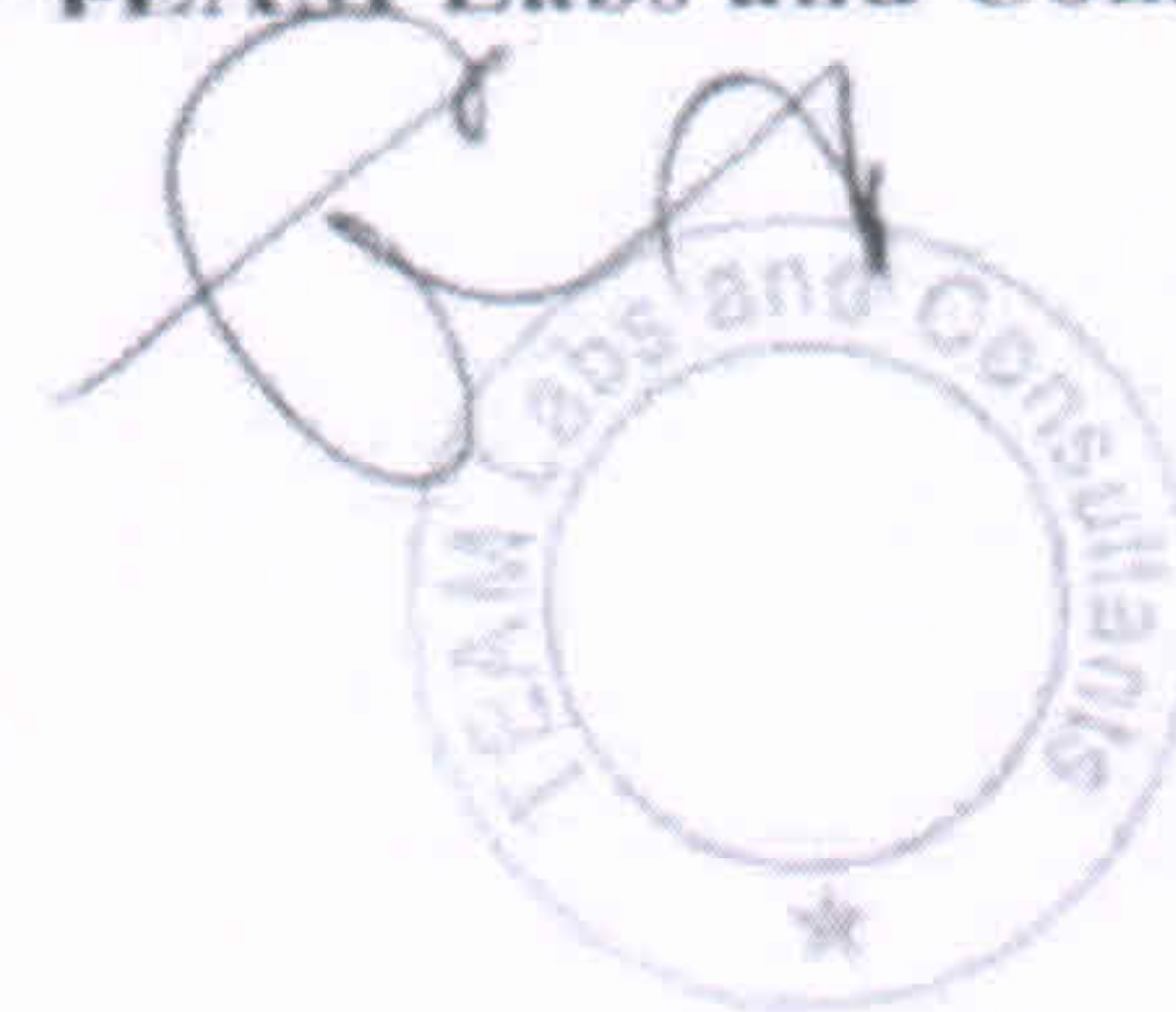
Test Report No .TLC /V/Env/ TSPL/2/0816

dt 16.09.2016

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Baghouse attached to IRZ Dryer  
Date of Sampling: 10.08.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	10.08.2016	10.08.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>o</sup> c	69	72
6	Exit gas velocity (m/s)	25.0	24.0
7	Flue gas flow rateNM <sup>3</sup> /hr	22193	70898
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	58	46

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**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/2/0716

dt 08.08.2016

Description of Test: Stack Emissions Analysis  
 Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
 Location of sampling: Baghouse attached to IRZ Dryer  
 Date of Sampling: 18.07.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	18.07.2016	18.07.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>0</sup> c	67	68
6	Exit gas velocity (m/s)	27.0	26.0
7	Flue gas flow rateNM <sup>3</sup> /hr	24109	80055
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	55	48

For TEAM Labs and Consultants





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**TEST REPORT**

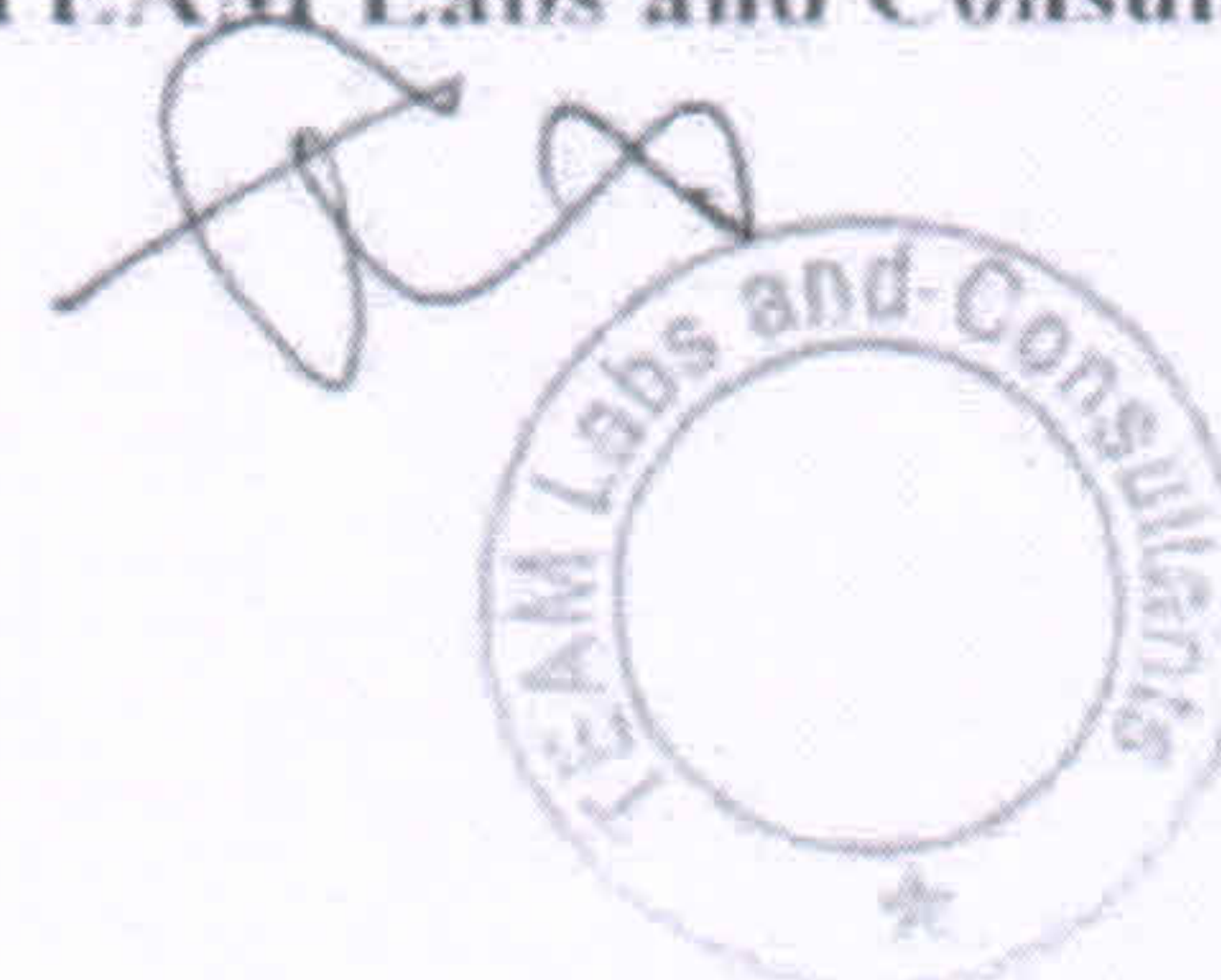
Test Report No .TLC /V/Env/ TSPL/2/0616

dt 04.07.2016

Description of Test: Stack Emissions Analysis  
 Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
 Location of sampling: Baghouse attached to IRZ Dryer  
 Date of Sampling: 17.06.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.06.2016	17.06.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp <sup>0</sup> c	63	65
6	Exit gas velocity (m/s)	31.1	33.6
7	Flue gas flow rate NM <sup>3</sup> /hr	27852	101313
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	48	39

For TEAM Labs and Consultants



# TEAM

ORIGINAL

Labs and Consultants

Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038

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Laboratory Recognised by Ministry Environment, Forests and Climate Change, Govt. New Delhi

## TEST REPORT

Test Report No. T/C / A / Env / TSPL / 2 / 0516

dt 06.06.2016

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Baghouse attached to IRZ Dryer  
Date of Sampling: 09.05.2016

No.	Parameter	Stack attached to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag Filter Outlet
1	Date of sampling	09.05.2016	09.05.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m <sup>2</sup> )	0.283	0.950
5	Flue gas temp <sup>o</sup> c	62	64
6	Exit gas velocity (m/s)	10.0	11.5
7	Flue gas flow rate NM <sup>3</sup> /hr	9062	36059
8	Emission Rates		
9	Dust concentration mg/NM <sup>3</sup>	85	82

For TEAM Labs and Consultants

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**TEST REPORT**

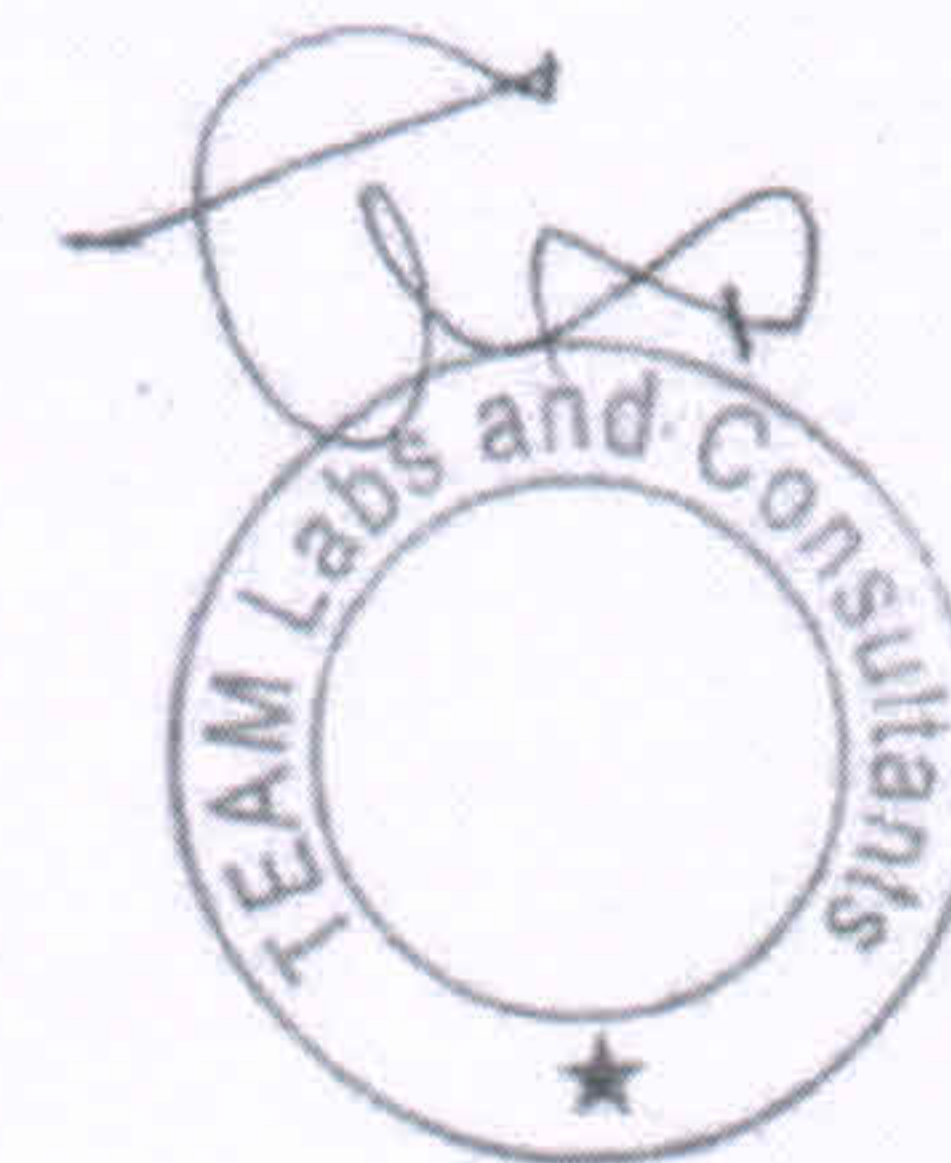
Test Report No. TLC/V/Env/TSPL/11/0317

dt 04.04.2017

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Bag house attached to IRZ Dryer  
Date of Sampling: 14.03.2017

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	14.03.2017	14.03.2017
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp <sup>o</sup> c	60	68
6	Exit gas velocity (m/s)	28.0	22.4
7	Flue gas flow rate NM <sup>3</sup> /hr	70811	66948
8	Dust concentration mg/NM <sup>3</sup>	810	98
9	Removal efficiency	87.9%	

For TEAM Labs and Consultants



**Registered Office :**

B-115, 116, 117 &amp; 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization

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**TEST REPORT**

Test Report No.TLC/V/Env/TSPL/11/1216

dt03.01.2017

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Bag house attached to IRZ Dryer  
Date of Sampling: 30.12.2016

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	30.12.2016	30.12.2016
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp <sup>0</sup> c	62	48
6	Exit gas velocity (m/s)	29.0	21.9
7	Flue gas flow rateNM <sup>3</sup> /hr	72902	69531
8	Dust concentration mg/NM <sup>3</sup>	420	63
9	Removal efficiency	85.0%	

For TEAM Labs and Consultants



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**TEST REPORT**

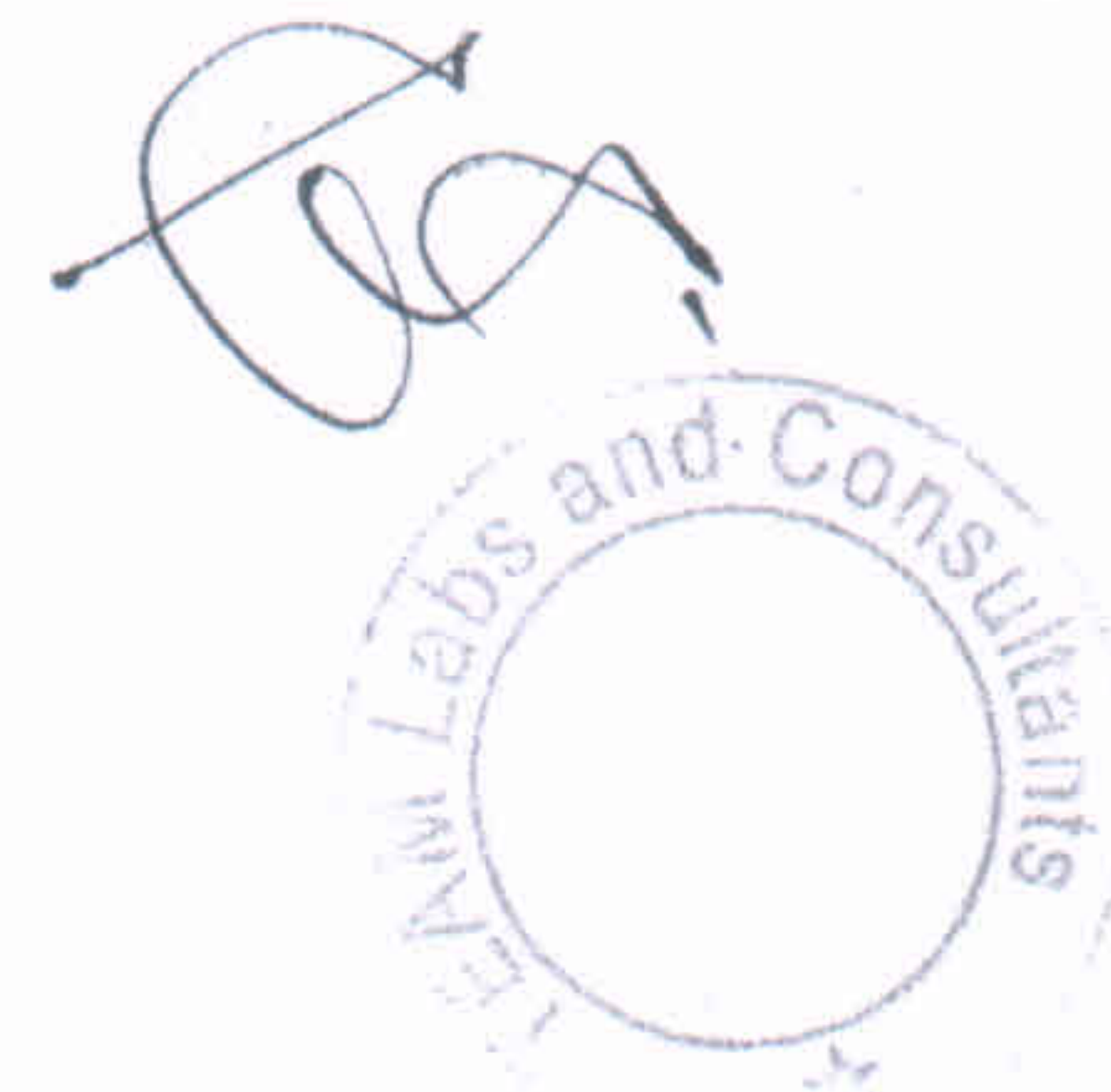
Test Report No.TLC/V/Env/TSPL/11/0916

dt10.10.2016

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Bag house attached to IRZ Dryer  
Date of Sampling: 21.09.2016

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	21.09.2016	21.09.2016
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp <sup>o</sup> c	68	64
6	Exit gas velocity (m/s)	35.0	29.0
7	Flue gas flow rateNM <sup>3</sup> /hr	86437	87702
8	Dust concentration mg/NM <sup>3</sup>	395	58
9	Removal efficiency	85.5%	

For TEAM Labs and Consultants



**Labs and Consultants****Registered Office :****893**

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**TEST REPORT**

Test Report No.TLC/V/Env/TSPL/11/0616

dt 04.07.2016

Description of Test: Stack Emissions Analysis  
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.  
Location of sampling: Bag house attached to IRZ Dryer  
Date of Sampling: 17.06.2016

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.06.2016	17.06.2016
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp <sup>o</sup> c	69	65
6	Exit gas velocity (m/s)	36.0	33.6
7	Flue gas flow rateNM <sup>3</sup> /hr	88647	101313
8	Dust concentration mg/NM <sup>3</sup>	339	39
9	Removal efficiency	88.4%	

For TEAM Labs and Consultants

